

Nonresponsive



From: GROOM Jeremy [mailto:jeremy.groom@state.or.us]

Sent: Monday, May 05, 2014 8:11 AM

To: Henning, Alan; jeffrey.lockwood@noaa.gov; SEEDS Joshua; Kubo, Teresa; Leinenbach, Peter

Subject: possible RipStream presentation for today

Greetings,

Attached is a presentation we may use some or all of today.

See you soon,

Jeremy

Jeremy Groom

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RipStream methods update to EPA, NOAA and DEQ

5 May, 2014

Developments

- Where we were in January
 - Deadlines
 - Communication
 - Developments
 - Methods
 - Ancillary review
 - Mark Teply – Cramer Scientific
 - Weyerhaeuser statisticians

To-do list

- 1) Model leave-one-out cross-validation – **1.8.3, Figure 14**
- 2) Priors tested in main model – **1.8.1**
- 3) 40 day vs. 7DMM – **Appendix 1**
- 4) How did harvests compare?? – **2.2.4**
- 5) Specific prescriptions – *Awaiting finalization of methods*
- 6) Write up methods – **First draft complete**

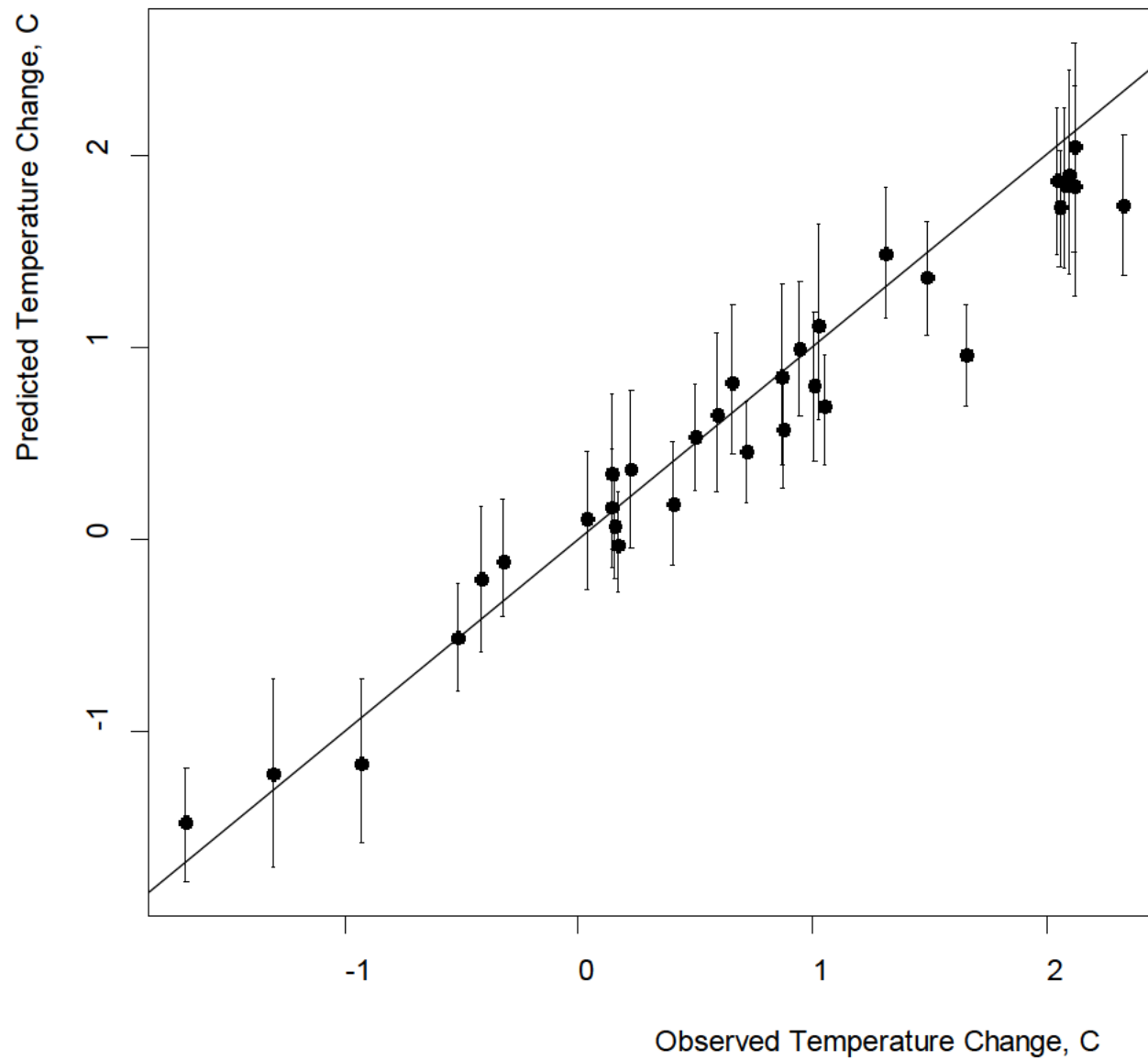
Other changes

- FPA harvest reviewed, some changes
- FMP harvest review in progress
- Literature review in progress
- Timeframe less rushed

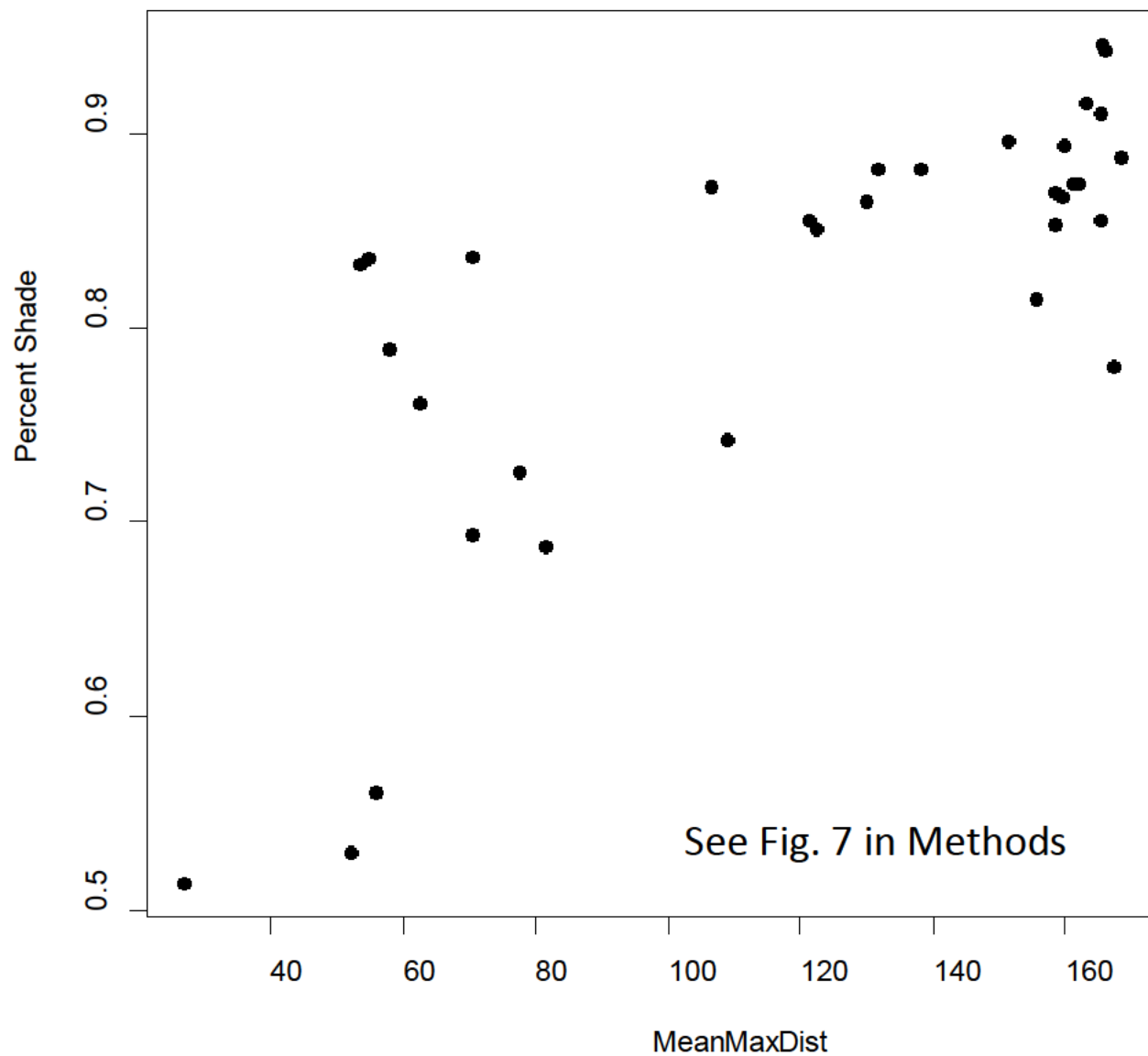
Focus items

- Multiple models
- Shade curvature
- State vs. private
- Total distances
- Literature review

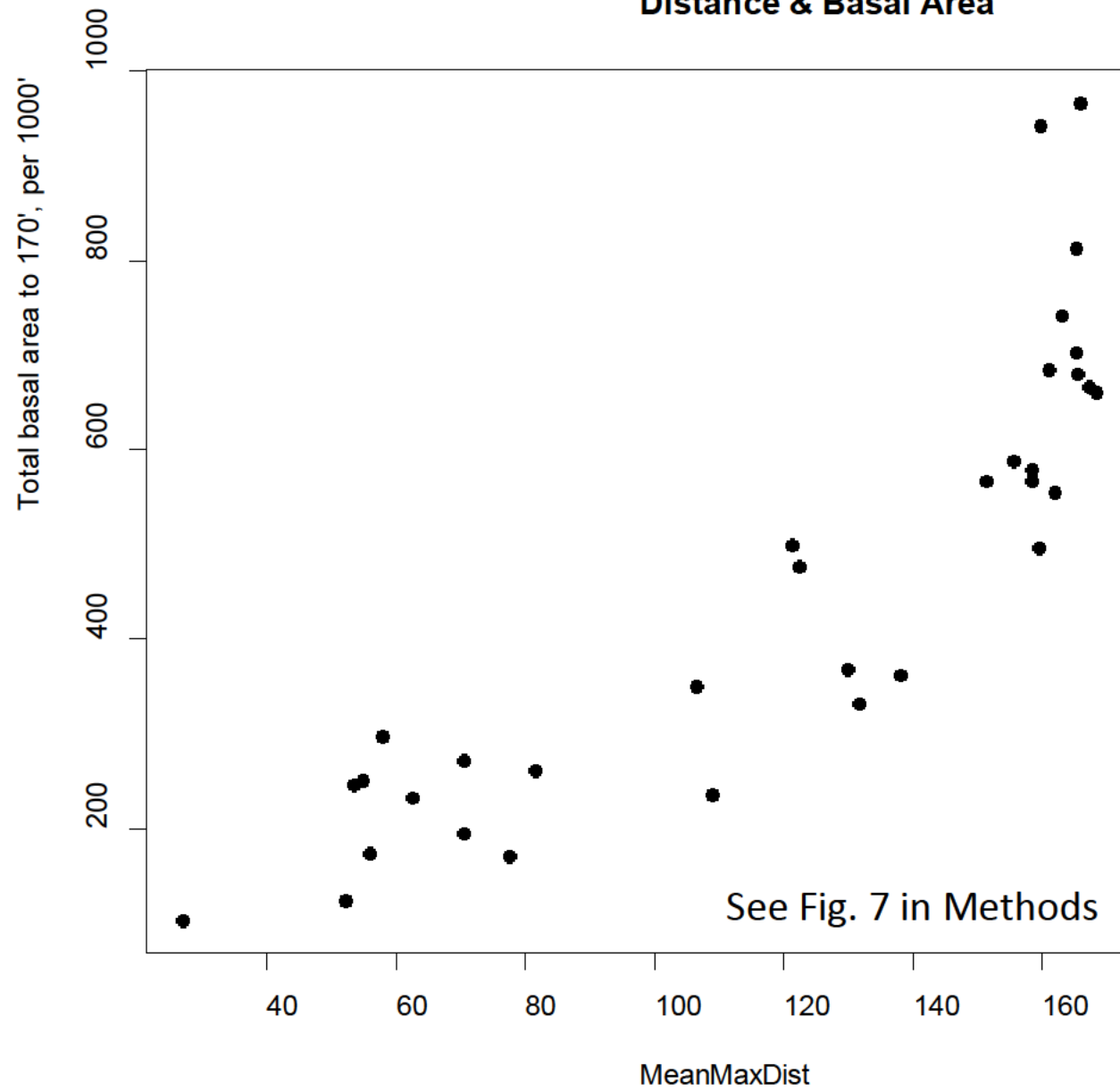
Predicted vs. Observed Temperature



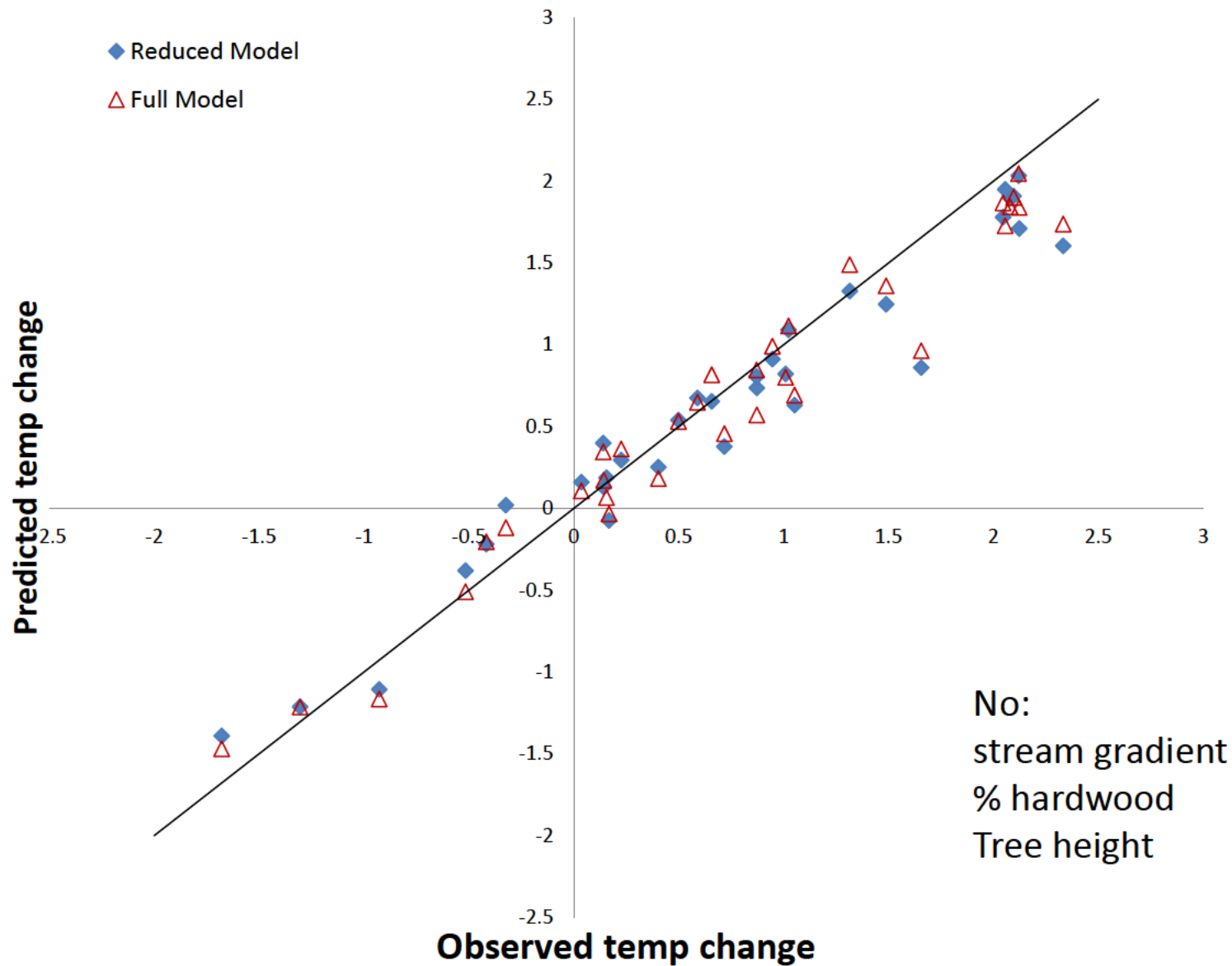
Distance and Shade



Distance & Basal Area



Reduced model predictions



Bayesian Assumption checks

- Model converged
 - Yes (?)
- Priors appropriate (means, distribution, precision)
 - Uninformed means, relaxed precision, checked distributions
- Model not overfit
 - Leave-one-out cross-validation

Leave-one-out predicted vs. observed, by ownership, first year post-harvest

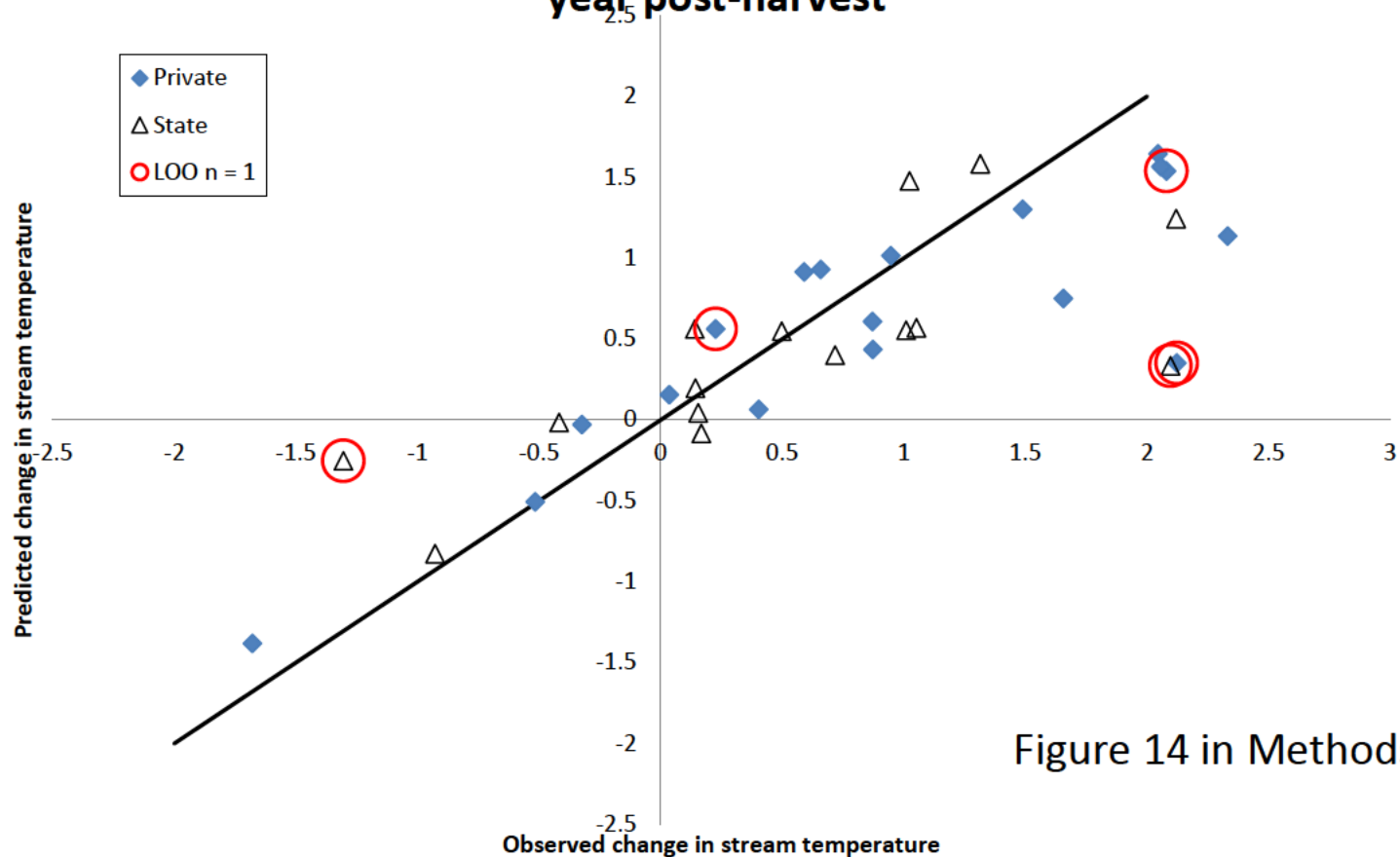
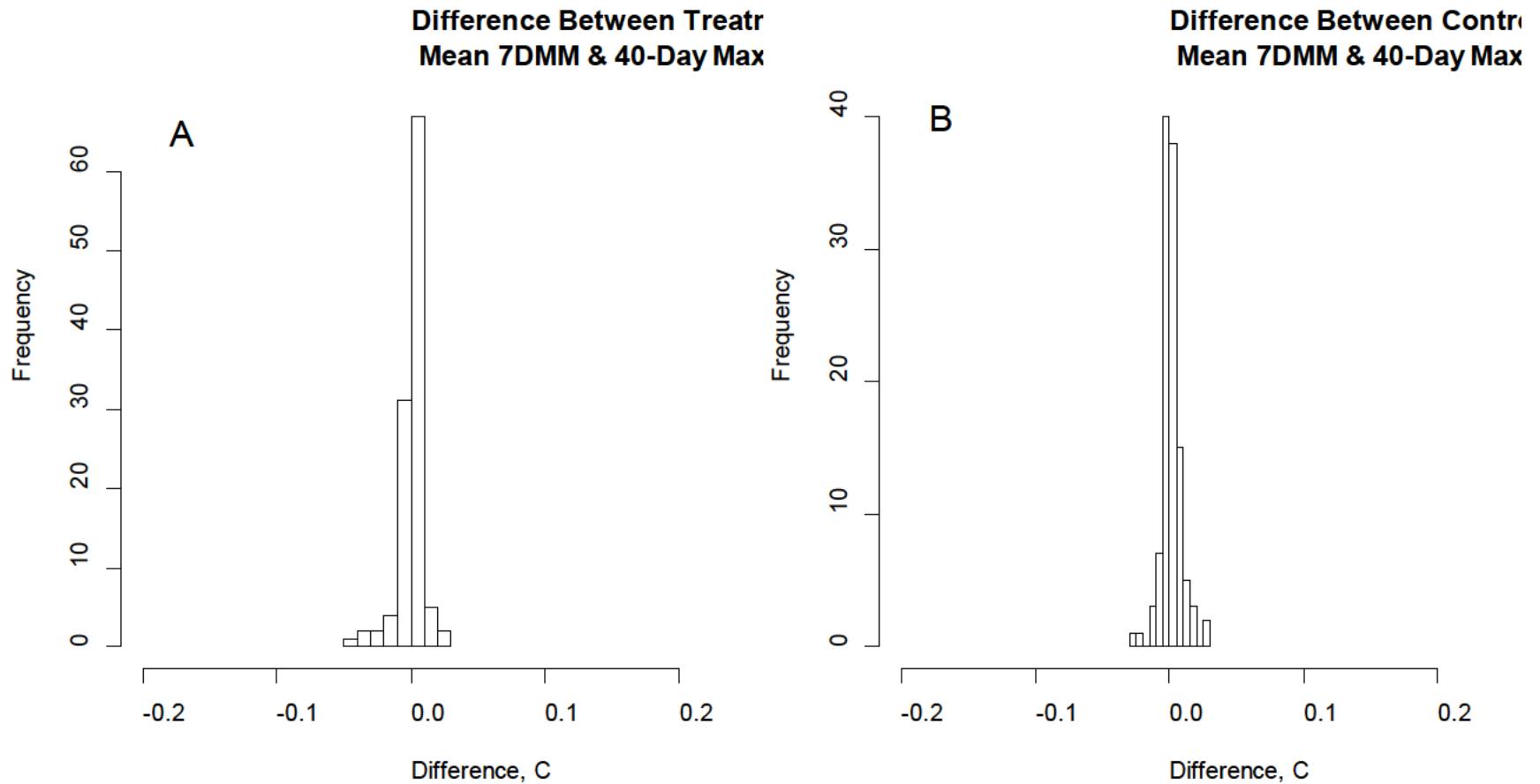
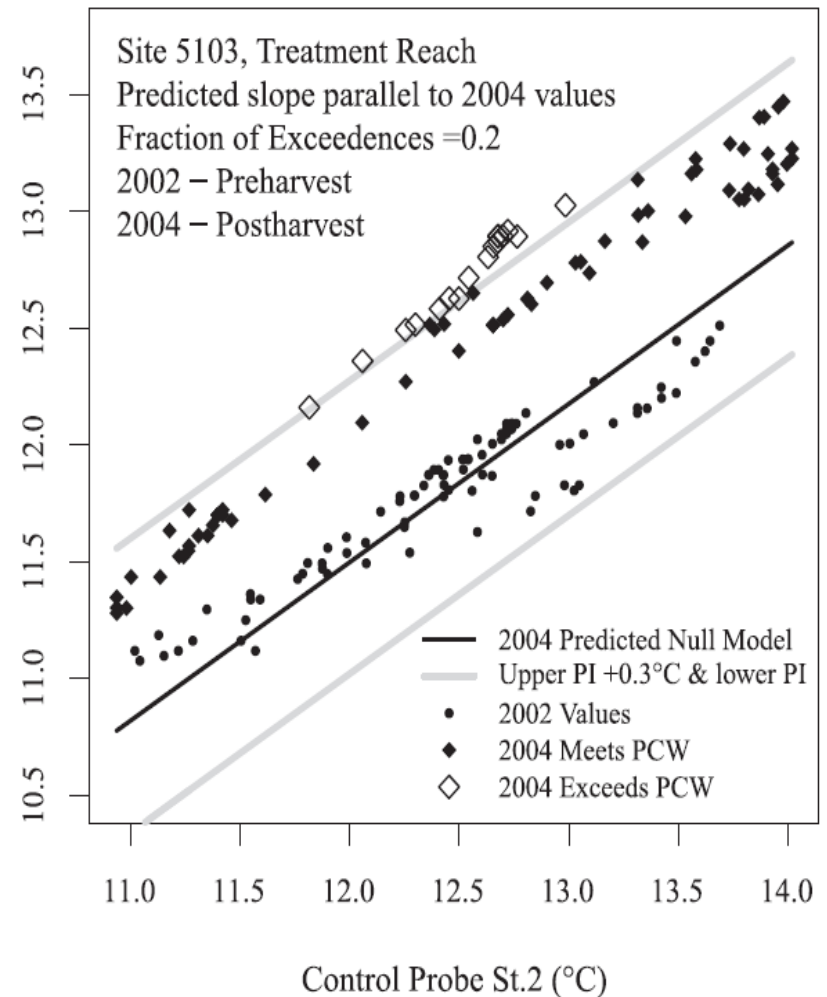
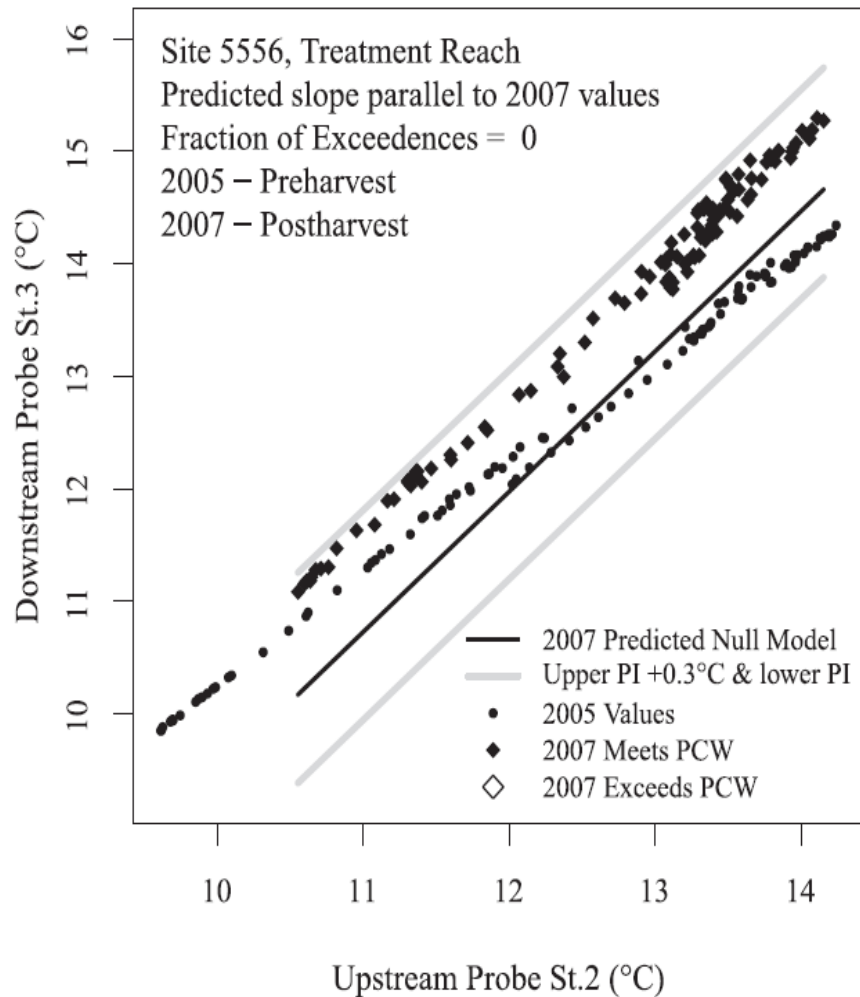


Figure 14 in Methods

7DAYMAX vs. 40-day max



7DAYMAX exceedance locations



Square feet of basal area to 170' from stream

Harvest Comparison

State

Private

- FPA
- NWFMP
- As Harvested
- Pre-Harvest

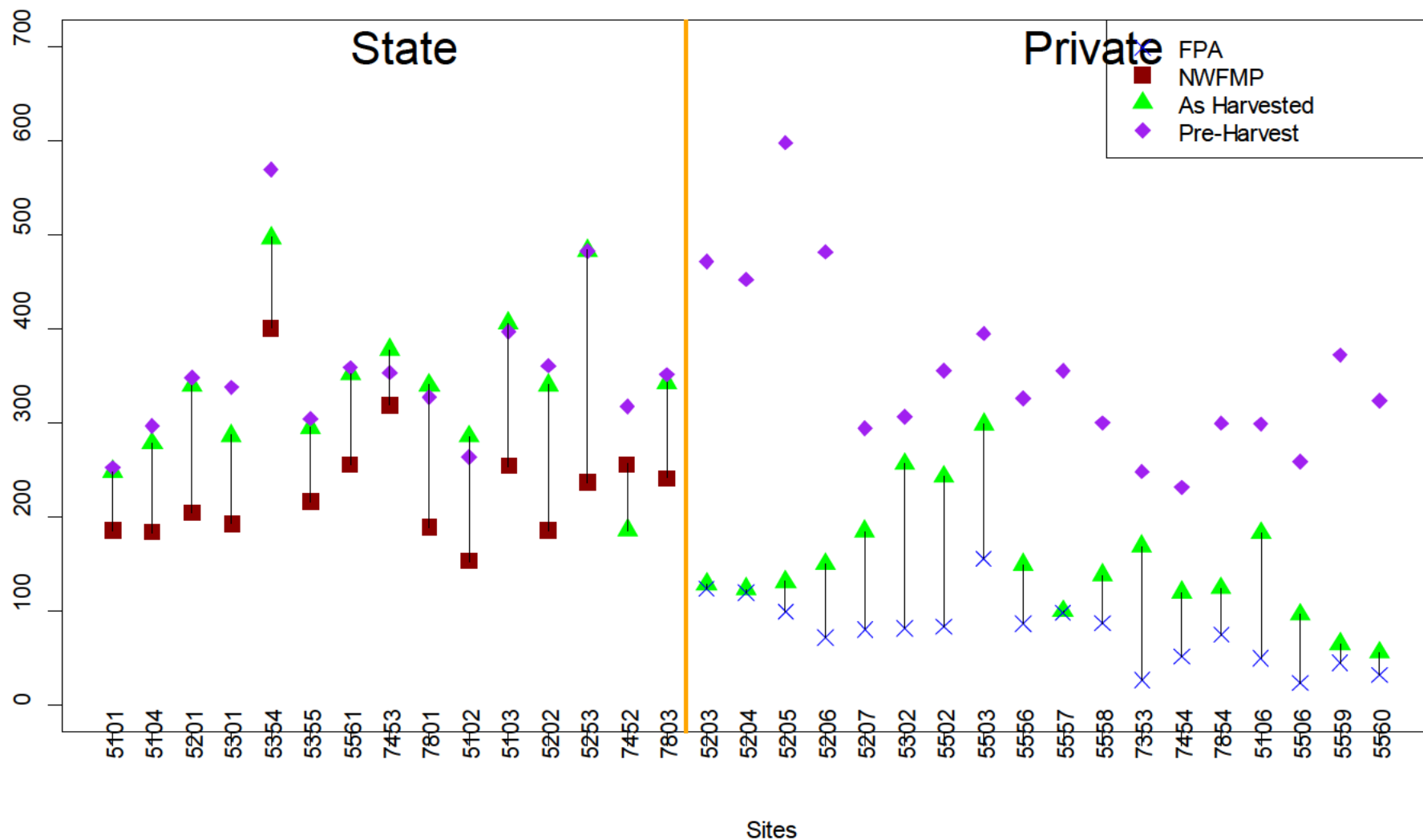


Figure 18, methods

Model Limitations

- Within 100' of the stream, no information on tree distribution (assumes hard-edged clearcut)
- Sites not randomly selected; representative?
- Built around highly shaded streams (80% +). May not be applicable for less shaded streams.